

FIGURE 2

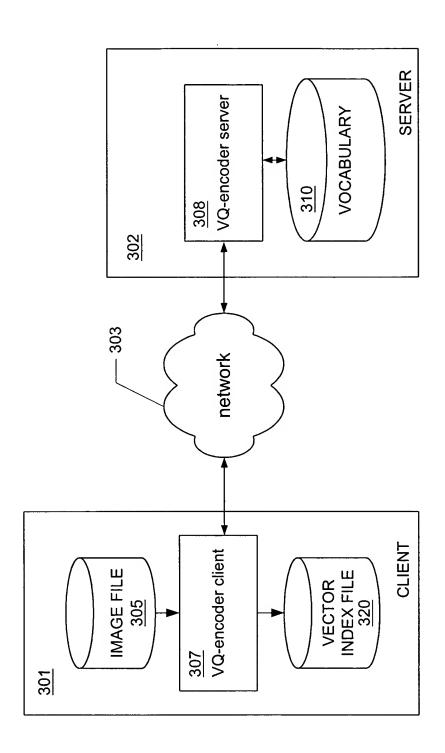
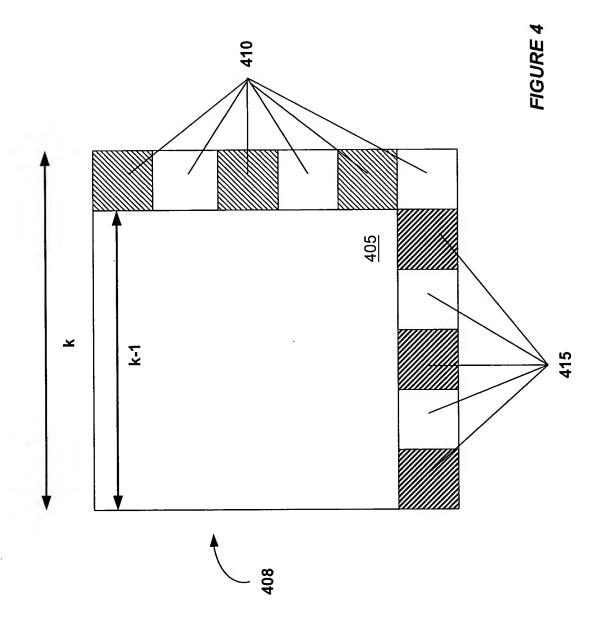
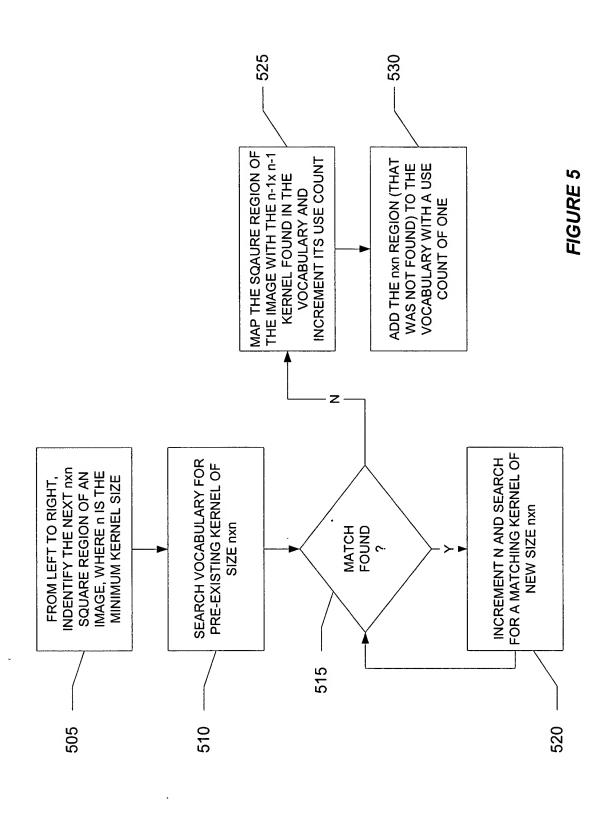


FIGURE 3





%;55		5,332	1,7777 The Karana Tables Is a second	35,451	297,861 52,570 35,451 1,777 - size of JPEG2000 file in Kbytes - width of image in pixels - height of image in pixels	e of Ith c
25%	18.3	5,332	1,777	35,451	ó	52,57
45%	20.9	5,686	1,895	278,714 49,734 39,962	4	49,73
75%	15.7	4,659	1,553	37,840	4	43,034
45%	22.0	3,214	1,071	35,429 31,703	တ	35,42
. 45%	21.3	5,640	1,880	270,844 52,619 37,461	6	52,61
%09 ×	19.4	2,248	749	26,488	97	29,667
65%	15.8	5,716	1,905	52,631 37,961	31	52,6
%0 2	17.5	3,672	1,224	34,369	39	37,339
%09	16.5	4,760		34,134 1,587	38	48,738
%0 <i>L</i>	16.7	3,765	33,546 1,255 3,765	33,546	30	39,230
width height size Mp size MB comp %tissue				The state of the s		2000 CO MAN

Size Mp Size Mb Comp %tissue

- size of image in Mpixels
- size of image in Mbytes
- compression ratio (JP2 vs. image data)
- approximate %tissue on slide (vs. glass)

Table 0. Sample table of liver slides used for study

slide	VIF KB comp	comp	#vectors		ave vect VCB MB idx MB	idx MB	#vectors	ave vect	ave vect idx time	enc time tot time	tot time
vs439_20xn	121,702	31.7	31,148,155	6.5	818	520	59,181,494	3.2	0:00:0	0:09:23	0:09:23
vs440_20xn	128,042	38.1	32,770,657	7.1	964	529	68,244,628	3.4	0:17:25	0:10:58	0:28:23
vs441_20xn	110,050	34.2	28,165,796	6.7	1,069	586	75,800,102	3.3	0:18:49	0:10:09	0:28:58
vs442_20xn	153,772	38.1	39,355,871	7.1	1,220	625	86,035,088	3.4	0:19:50	0:12:56	0:32:46
vs443 20xn	54,584	42.2	13,970,124	7.5	1,281	640	89,555,559	3.4	0:21:16	0:09:24	0:30:40
vs483 20xn	24,997	131.6	6,397,753	13.2	2,876	944	168,756,512	4.9	0:38:40	0:21:15	0:59:55
vs484 20xn	45,119	105.7	11,547,703	11.8	2,889	944	169,092,117	4.9	0:38:20	0:22:51	1:01:41
vs485_20xn	42,609	136.7	10,905,185	13.5	2,906	945	169,378,378	4.9	0:38:00	0:24:04	1:03:04
vs486_20xn	42,270	129.2	10,818,519	13.1	2,921	945	169,633,289	2.0	0:39:12	0:23:54	1:03:06
vs487_20xn	18,242	168.7	4,668,846	15.0	2,939	946	169,731,334	5.0	0:39:22	0:21:50	1:01:12

- name of slide

- size of vector index file in Kbytes VIF KB

- compression ratio (VIF vs. image data) Comp

- number of vectors in vector index file (number of kernels found in image) #vectors

- average size of vectors in vector index file (average size of kernels) ave vect

- size of vocabulary file after processing in Mbytes VCB MB

- size of memory-resident index after processing in Mbytes Idx MB

- number of vectors in vocabulary #vectors

- average size of vectors in vocabulary ave vect

- time required to load vocabulary index idx time

- time required to encode image (after index loaded) enc time

 total time required for processing (index time plus encode time) tot time

Vocabulary Convergence

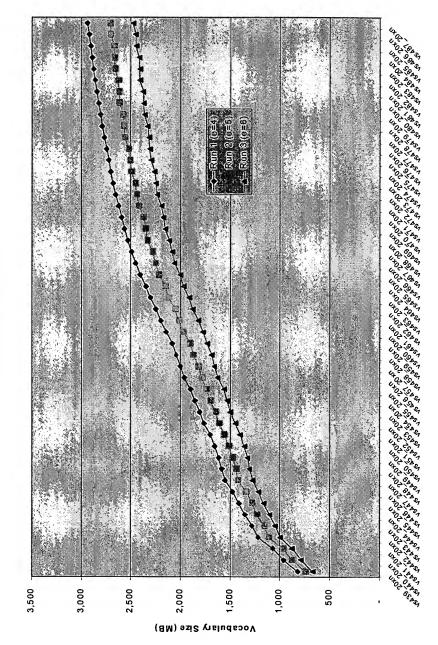


FIGURE 8

Index Convergence

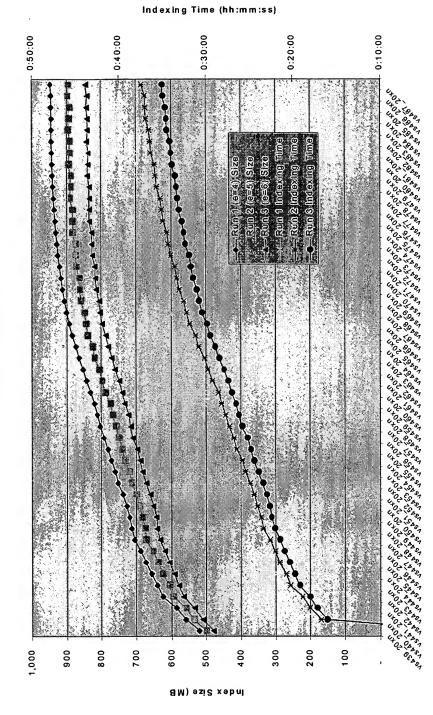


FIGURE 9

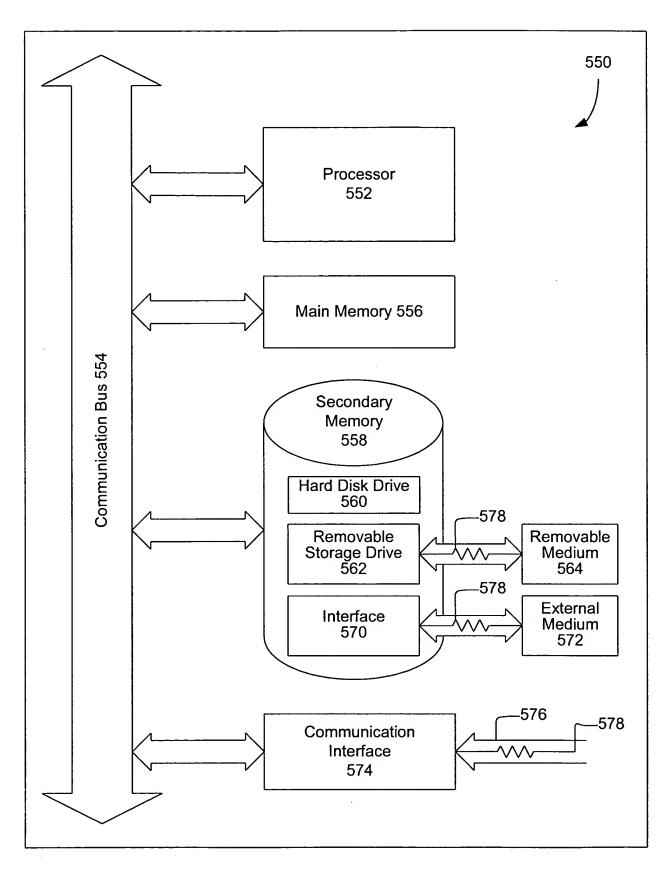


FIG. 10